V1.2EZ -3/07

Family Information Form-Template

Manufacturer:

Engine category:

Cert contact:



 Model Year: Carry over: If yes, list the previous family: Process Code: Date EPA Fee Paid: EPA Standard Engine Family: Mfr's Family Name: Engine Cycle: 	2011 New Submission 2/11/2011 BNXH07570GD Maxxforce 13 Diesel	Applicable Regulations O Part 89 O Part 1039 O Part 60 only certified to requirements of Part 1039 O Part 60 only certified to requirements of Part 89 O Part 60 and Part 1039 Part 60 and Part 89	Nonroad CI Stationary only Stationary- Nonroad CI
Aftertreatment:	I-6	19. Plant Contact: EPA (b) (4) CBI EPA (b) (4) CBI 20. Plant Location: EPA (b) (4) CBI	
If Other Describe: 10. Fuel Type: 11. Fuel System Type: 12. Method Of Aspiration: Turbocharger Type Aftercooling	Diesel Electronic Direct Injection Two Stage Turbo VGT Air to Water	21. ABT Information: Check all that apply In the split family program NMHC+NOx PM NOx 22. Family Emission Limits: PM NOx NOX NMHC + NOX Inits: q/bHp-hr	
 13 Useful Life Period: 14. Deterioration Factor Type A. Gaseous Exhaust: B. Smoke: 15. Intended Service Class 	10 yrs / 435,000 mi / 22,000hrs Multiplicative NA	Units: g/bHp-hr 23. Nonroad Engine Equipment Types: Crane Dozer Generator Set Loaders Pump NA Tractor Compressor Other	

Note: New or modified fields for the 2007 MY on-hwy certification

Note: New or modified fields for stationary engines and new reg. parts 60/1039 are in

New change explanation

If CFF, Select which c	ategory:
16. Projected Sales :	FED EPA (b) (c)
	TOTAL EPA (D) (
17. Estimated Production Period:	Start EPA (b) (4) CBI
18. Sales Area:	● Fed ○ Cal ○ 50 St

24. Auxiliary Emission Control Devices:

Reduces effectivness of emission control?

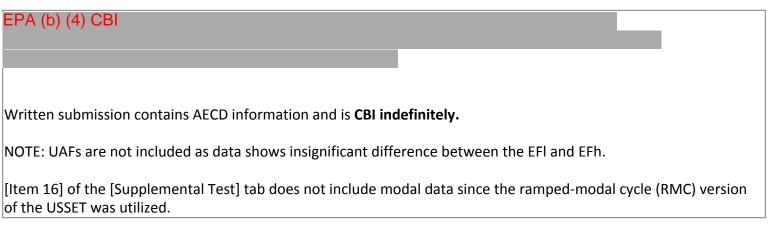
AECD	<u>Sensed</u>	PARAMETER	<u>Controlled</u>	<u>VMT</u>	TONS/ENGINE		Examples of AECDs:
See attached document						Yes	Engine Starting
						Yes	Warm up
						O Yes	White Smoke
						O Yes	Extended Idle
						O Yes	Condensation
						Yes	Acceleration
						O Yes	Altitude
						Yes	Air Handling
						<u>Yes</u>	Over heat
						O Yes	PTO
							Regen Strategies

25. Adjustable Parameters:

<u>Parameter</u>	Adjustable Range (or N/a)	Tamper Resistance Method (or N/a)
None		

26. OBD				
OBD Approval date:				
OBD Approval Method:				
Examples: letter from EPA , ve	erbal from EPA, E.O. covers it			
27. Maintenance Interval				
Alternate Maintenance Int.?	○ Yes			
If yes, describe				
28. Is this engine family using	the Delegated Assembly flexi	bility described in 85.1713?	○ Yes No	
If yes, attach plan in a cont	ainer field on technical descrip	otion page		

29. Comments:



Note: If the comment text box is too big you can adjust the box by going to Vie Layout Mode you can move the box ar box by grabbing the corner of the box to the Browse Mode for data entry. Be easily be done in the Layout Mode.



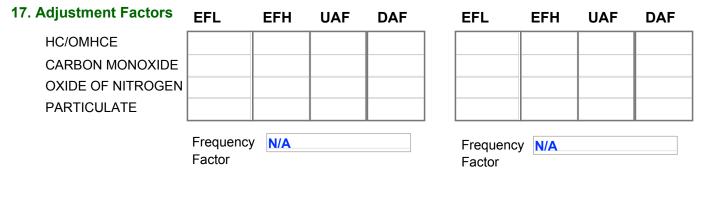
Test Information Form

Manufacturer:	Navista	ar Inc.								
Engine category:	On-higl	hway HD	DE							
Cert contact:	Ade Ad	lekanmbi								
EPA Standard E	ingine Family:	BNXH07	′570GD			ie (ft-lb) @	1560		@	
2. Process Cod	le:	New Sub	mission		Engine F	RPM:	1600			
3. Test Data Se	et:	1			10. WAI	VERs:	co	<u>PM</u>	<u>Smoke</u>	Idle Co
4. Engine Code) :	B475					NA	NA	NA	
5. Engine Mode	el:	B475								
6. Displacemen	nt(s)				11. Cold	l Start?	No			
(cid Or Liters):		757cid			12. Cert	ification Fuel:	Diesel(Pa	rt 86.1313-20	007(b)-(2)Table	N07-2
7. Engine I.d. N	lumber:	RD7047			13 Spe	cial Test Device	No			
8. Rated HP @	!	475		@	•	Procedure:	On-Hwy	Discol		
Rated RPM:		1700			14 1681	Frocedure.	OII-HWy	Diesei		
16. Official T€	set Pacult	te Data:	If the CCE	s are m		ately from exha arately list them in ad below.	the tech. o	description (item 13) and a	account
10. Official 16	ost ivesuit	is Date. [Test 1		Test 2	Test 3	_ D	Fs		
HC/OMF	HCE	1	16311		16312	16813				
	OMNMHCE	:	0.01				3.4	174		
HC + NC										
	N MONOXI	IDE	0.30				1.0	000		
	OF NITRO	-	0.20					000		
PARTIC		_	0.001					167		
FORMA	LDEHYDE									
ACCELE	ERATION	(%opacity)								
LUGGIN	IG (Gen) <mark>(</mark> %	%opacity)								
PEAK (%opacity)									
IDLE CO) %									
CO2										

NOx Adsorber, etc

DPF

Strategy



Units--

18. Certification Levels (Rounded Test Results)

HC/OMHCE
NMHC/OMNMHCE
NMHC + NOx
CARBON MONOXIDE
OXIDE OF NITROGEN
PARTICULATE
FORMALDEHYDE
ACCELERATION (%opacity)
LUGGING (Gen) (%opacity)
PEAK (%opacity)
IDLE CO%



g/bHp-hr

--Units

STDs

FELs

0.2

Supplemental Test Information Form

Manufacturer: Navistar Inc.

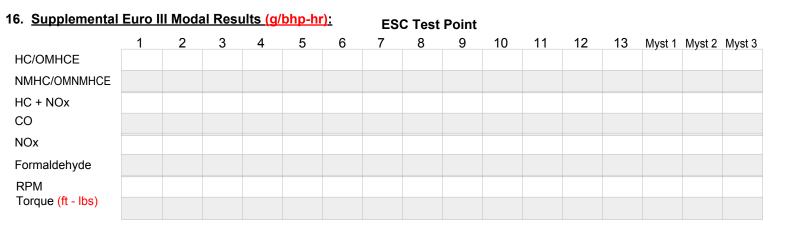
Engine category: On-highway HDDE

1. EPA Engine Family:	BNXH07570GD		9. Torque (ft-lb) @	1560		@
2. Process Code:	New Submission		Engine RPM:	1600		
3. Test Data Set:	1		10. WAIVERs:	<u>co</u>	<u>PM</u>	<u>Smoke</u>
4. Engine Code:	B475			NA	NA	NA
5. Engine Model:	B475					
6. Displacement(s)			11. Cold Start?	No		
(cid Or Liters):	757 cid		12. Certification Fuel:	Diesel(Par	t 86.1313-2	2007(b)-(2)TableN07-2
7. Engine I.d. Number:	RD7047		13. Special Test Device	No		
8. Rated HP @	475	@	·	0 1		
Rated RPM:	1700		14. Test Procedure:	Suppleme	ental Euro	

15. Supplemental Euro III Test Information

						<u>% Speed</u>	% Load	
Test Date:	2/11/2011	A Speed: 1484 (RPM)	A Speed Max Torque:	1313	(ft-lbs)			
N _{lo} Speed:	1323 (RPM)	B Speed: 1644 (RPM)	B Speed Max Torque:	1509	(ft-lbs)			
N _{hi} Speed:	1968 (RPM)	C Speed: 1805 (RPM)	C Speed Max Torque:	1271	(ft-lbs)			

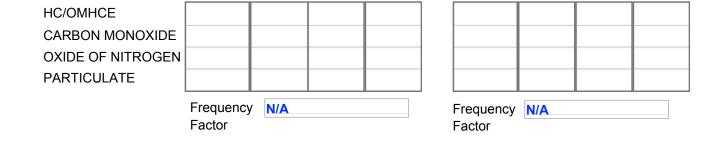
Mystery Points



NOx Adsorber, etc

DPF Strategy

17. Adjustment Factors EFL EFH UAF DAF EFL EFH UAF DAF



18. Weighted Composite Results (g/bhp-hr):

HC/OMHCE

HC + NOx

Formaldehyde PM (Composite only)

CO

NOx

NMHC/OMNMHCE

0.01 0.02 0.20

0.000

19. <u>Deterioration Factors:</u>

20. <u>Certification Levels (g/bhp-hr):</u>

Sample Interval

3.474		0.0		
1.000	=	0.0		
1.000		0.0		
6.167		0.00		
Same DFs as test page				

Beginning

21. Transient Load Response Limit Results (g/bhp-hr):

	HC	NOx	PM	Load (ft-lbs)	Length
Lowest NTE Speed					
15% ESC Speed					
25% ESC Speed					
50% ESC Speed					
75% ESC Speed					
100% ESC Speed					

DF Type:

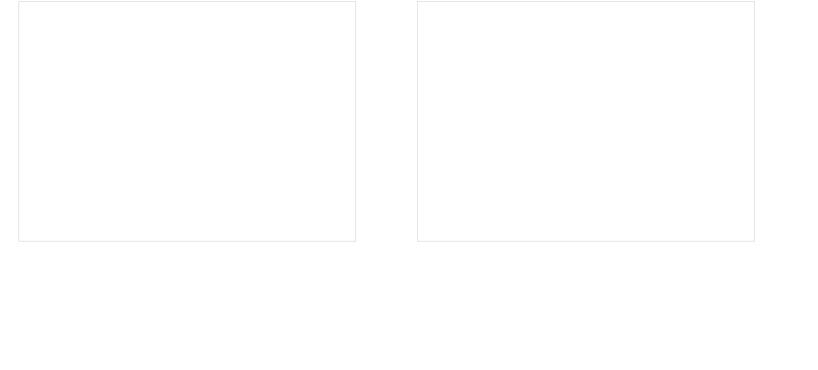
Technical Description Form 1

Manufacturer:	Navistar Inc.	
Engine category:	On-highway HDDE	
EPA Engine Family:	BNXH07570GD	
Mfr Family Name:	MAXXFORCE 13	
Process Code:	New Submission	
1 Diagrams/ Dra	wings/Schamatics:	2. Diagrams/ Drawings/Schamatics:
i. Diagrams/ Dia	wings/Schematics:	Diagrams/ Drawings/Schematics:
3. Diagrams/ Dra	wings/Schematics:	4. Diagrams/ Drawings/Schematics:
5. Diagrams/ Dra	wings/Schematics:	6. Diagrams/ Drawings/Schematics:

, [Diagrams/ Drawings/Schematics:	8	. Diagrams/ Drawings/Schematics:
).	Diagrams/ Drawings/Schematics:	1(Diagrams/ Drawings/Schematics:

11. Diagrams/ Drawings/Schematics:

12. Diagrams/ Drawings/Schematics:



13. Crankcase emission measured separately

	Test 1	Test 2	Test 3
HC/OMHCE			
NMHC/OMNMHCE			
HC + NOx			
CARBON MONOXIDE			
OXIDE OF NITROGEN			
PARTICULATE			
FORMALDEHYDE			
ACCELERATION (%opacity)			
LUGGING (Gen) (%opacity)			
PEAK (%opacity)			
IDLE CO %			

CO2		

Technical Description Form 2

Manufacturer: Navistar Inc.

Engine category: On-highway HDDE

EPA Engine Family: BNXH07570GD

Mfr Family Name: MAXXFORCE 13

Process Code: New Submission

14. Technical Description:

Note: If the technical description tex you can adjust the box by going to \ Layout Mode you can move the box box by grabbing the corner of the bot to the Browse Mode for data entry. easily be done in the Layout Mode.

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque		9.Emission Control leDevice Per SAE J1930
BNVXH07570GD	B475	B475	475@1700	288	164	1560@1600	297	159	DI, ECM, TC
									CAC, EGR, OC
									PTOX

Engine Family	Engine G-Code	Engine Model	Inication Duman	luiantos	Turks Charge	Electronic Control	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor As	
			Injection Pump	Injector	Turbo Charge	Module		Littillei	Description	Part Number
BNVXH07570GD	B475	B475	3005275C1	3014103X91	T0210012951	3008708X1	DPF+DOC		Cam Shaft	62271207038
BNVXH07570GD					3008565X91	ECM-5554-112 -0904-xD	3860631C93		Fuel Rail psi	3008327X1
BNVXH07570GD						AirpathVGT_INC Av62_Release_2 5Jan2011_RD70 47_Cell26_Cert0 al_11Feb2011	<u>2</u>)		Oil Temp	62274210190
BNVXH07570GD						M131SSM_E346 SK01_NoRegen _ALT_JGS_0915 10_RD7047_Cel	5 		Coolant Temp	62274210190
BNVXH07570GD						26 CertCal 11F			Manifold Temp	62274210165
BNVXH07570GD									Amb. air temp	3561562C1

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Ass Description	semblies Part Number
BNVXH07570GD			пусскопт итр	Hydotol	raibe enarge	Wioduic	(Doser Fuel psi	3006082C1
BNVXH07570GD									DPF Delta psi	3626432C1
BNVXH07570GD									Lambda	3006233C1
BNVXH07570GD									Boost psi,	1846481C92
BNVXH07570GD									Crank Shaft	62271207038
BNVXH07570GD									Exahaust Gas Temp	3006419C1 3006420C1 1870825C1

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Ass Description	<u>emblies</u> Part Number
BNVXH07570GD			,	,	5				Humidity	3006679C91
BNVXH07570GD									Mixer Pressure	1846480C2
BNVXH07570GD									Mixer Temperature	1846481C92
BNVXH07570GD									Exhaust Pressure	e 1846480C2
BNVXH07570GD									Turbo Pressure Out	1846481C92
BNVXH07570GD									EGR Out Temperature	1870825C1

Engine Family	Engine G-Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Ast	ssemblies Part Number	
BNVXH07570GD									EGR Out Pressure	1846480C2	

	Engine	Engine	Miscellaneous Part Names and Numbers							
Engine Family	Code	Model	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number
BNVXH07570GD	B475	B475	EGR Valve	2150001028	Intake Throttle	3005375C1	EGR Cooler	3013635C1	Doser	3006082C1
BNVXH07570GD										
BNVXH07570GD									Doser Valve	3006107C91
BNVXH07570GD										
BNVXH07570GD										
BNVXH07570GD										

	Engine	Engine	Miscellaneous Part Names and Numbers								
Engine Family	Code	Model	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	
BNVXH07570GD											
BNVXH07570GD											
BNVXH07570GD											
BNVXH07570GD											
BNVXH07570GD											
BNVXH07570GD											

	Engine	Engine	Miscellaneous Part Names and Numbers								
Engine Family	Code	Model	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	
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BNVXH07570GD											
BNVXH07570GD											
BNVXH07570GD											
BNVXH07570GD											
BNVXH07570GD											

	Engine	Engine	Miscellaneous Part Names and Numbers e								
Engine Family	Code	Model	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	
BNVXH07570GD											
				'					'		

	Engine	Engine			Miscellaneous	s Part Names	and Numbers	5		
Engine Family	Code	Model	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number
BNVXH07570GD	B475	B475	Coolant Control valve	ı	BREATHER	3007541C1	Manifold Air Flow Sensor	1881016C92		
BNVXH07570GD										
BNVXH07570GD					ı					
BNVXH07570GD					I					
BNVXH07570GD										
BNVXH07570GD										
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BNVXH07570GD										

1	Engine	Miscellaneous Part Names and Numbers Engine		S						
Engine Family		Model	Part Name	Part Number						
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	Engine	Engine	Miscellaneous Part Names and Numbers							
Engine Family	Code	Model	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number	Part Name	Part Number
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Statement of Compliance

On-highway HDDE

February 18, 2011

Certification Team Leader Engine Compliance Programs Group U.S. Environmental Protection Agency Mail Code: 6405-J Washington, DC 20460

Dear Certification Team Leader:

Please find enclosed the model year <XXXX> application for engine family <XXXXXXXXXXXXX. On behalf of the <XY Engine Company>, I hereby certify that the test engine(s), as described in this application for certification, has been tested in accordance with the applicable test procedures, utilizing the fuels and equipment required under subparts<XXXXXXXXXX, and that on the basis of such tests the engine(s) conforms to the requirements of <XXXXX>. I further certify that all engines in this engine family are in all material respects as described in the Application for Certification and comply with all requirements of <XXXXX> and the Clean Air Act.

Sincerely,

Manufacturer: Navistar Inc.

Engine category: On-highway HDDE

EPA Engine Family: **BNXH07570GD**

Mfr Family Name: MAXXFORCE 13

Process Code: New Submission

Address Form

Each field on this form must be filled in.

PA (b) (4) (EPA (b) (4) CBI	
FIRST NAME	INITIAL LAST NAME	
EPA (b) (4) CBI	EPA (b) (4) CBI	
TITLE	DIVISION	
Navistar Inc		
COMPANY NAME		PO BOX
EPA (b) (4) CBI		
ADDRESS		
EPA (b) (4) CBI	EPA (
CITY	STATE COUNTRY	
PA (b) (4) CBI	EPA (b) (6) Personal Info	
ZIP	E-MAIL	BEEPER (OPTIONAL)
EPA (b) (6) Personal Info	EPA (b) (6) Personal Info	
PHONE	FAX	

GENERAL COMMENTS

GENERAL COMMENTS